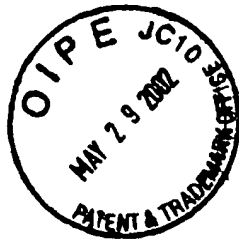
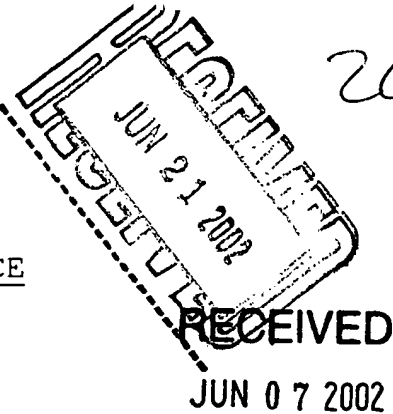


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IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION



Inventor: **BEERENDS, John G.**

Technology Center 2600

International Application No.: **PCT/EP00/08884**

International Filing Date: **08 September 2000**

Priority Claimed: **15 September 1999**

Serial No.: **10/069,704**

Filed: **26 February 2002**

Atty. Doc.: **PTT-133(402582US)**

Title: **MEASURING THE PERCEPTUAL QUALITY OF SPEECH SIGNALS  
INCLUDING ECHO DISTURBANCES**

COMMISSIONER FOR PATENTS  
Washington, D. C. 20231

S I R:

**SUPPLEMENTAL DISCLOSURE STATEMENT**

The applicant respectfully requests that the following references be considered in the examination of the above-identified application. A copy of each reference is enclosed.

**United States Patents**

<u>Patent No.</u>	<u>Issued</u>	<u>Inventor</u>	<u>Class</u>
AA. 6,266,419	July 24, 2001	Lacy et al	380/269
AB. 6,091,773	July 18, 2000	Sydorenko	375/240
AC. 6,064,966	May 16, 2000	Beerends	704/500
AD. 6,064,946	May 16, 2000	Beerends	702/57
AE. 6,041,294	March 21, 2000	Beerends	704/203

AF.	5,687,281	Nov. 11, 1997	Beerends et al	395/2.12
AG.	5,602,961	Feb. 11, 1997	Kolesnik et al	395/2.32
AH.	5,446,492	Aug. 29, 1995	Wolf et al	348/192
AI.	4,860,360	Aug. 22, 1989	Boggs	381/48

#### **European Published Patent Applications**

<u>Publication No.</u>	<u>Date Published</u>
AJ. 0 627 727	December 7, 1994
AK. 0 417 739	March 20, 1991

#### **German Published Patent Application**

<u>Publication No.</u>	<u>Date Published</u>
AL. 37 08 002	September 22, 1988

#### **PCT International Publications**

<u>Publication No.</u>	<u>Date Published</u>
AM. 01/52600	July 19, 2001
AN. 01/41127	June 7, 2001
AO. 97/44779	November 27, 1997
AP. 96/28953	September 19, 1996
AQ. 96/28950	September 19, 1996

#### **Publications**

- AR. Beerends et al, "Modelling a Cognitive Aspect in the Measurement of the Quality of Music Codecs", Audio Engineering Society, 96<sup>th</sup> Convention, 1994  
February 26 - March 01, Amsterdam, pps. 1-13.
- AS. Voran et al, "An Objective Technique For Assessing Video Impairments", Proceedings of the IEEE Pacific Rim Conference on Communications, Computers and Signal Processing, Vol. 1, (© 1993), pps. 161-165.

- AT. Beerends et al, "A Perceptual Audio Quality Measure Based on a Psychoacoustic Sound Representation", J. Audio Eng. Soc., Vol. 40, No. 12, 1992 December, pps. 963-978.
- AU. Voran, "The Development of Objective Video Quality Measures That Emulate Human Perception", IEEE GLOBECOM '91, pps. 1176-1781.

**REMARKS**

The German patent application (Reference AL) describes a speech or voice recogniser that learns based upon a reference pattern previously constructed from either a speech sample or test signals. In operation, the recogniser compares significance of learned signals and the test signals. For the Examiner's convenience, the applicant has enclosed an English-language abstract of this reference.

Since the remainder of the above-cited references are in the English language, then under rule 37 C.F.R. 1.98(a) (effective March 16, 1992), the applicant submits that no specific comments are necessary.

For the Examiner's convenience, the applicant has attached a completed modified form PTO/SB/08A&B hereto.

Respectfully submitted,

May 17, 2002



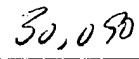
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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

### Complete if Known

Application Number	10/069,704
Filing Date	February 26, 2002
First Named Inventor	John G. BEERENDS
Art Unit	
Examiner Name	
Attorney Docket Number	PTT-133 (402582US)

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### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear, Class/SubClass
		Number	Kind Code <sup>2</sup> (if known)			
	AA.	US- 6,266,419		July 24, 2001	Lacy et al	380/269
	AB.	US- 6,091,773		July 18, 2000	Sydorenko	375/240
	AC.	US- 6,064,966		May 16, 2000	Beerends	704/500
	AD.	US- 6,064,946		May 16, 2000	Beerends	702/57
	AE.	US- 6,041,294		March 21, 2000	Beerends	704/203
	AF.	US- 5,687,281		Nov. 11, 1997	Beerends et al	395/2.12
	AG.	US- 5,602,961		Feb. 11, 1997	Kolesnik et al	395/2.32
	AH.	US- 5,446,492		Aug. 29, 1995	Wolf et al	348/192
	AI.	US- 4,860,360		Aug. 22, 1989	Boggs	381/48
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### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	AJ.	EP	0 627 727	December 7, 1994			
	AK.	EP	0 417 739	March 20, 1991			
	AL.	DE	37 08 002	September 22, 1988 (with English abstract)			
	AM.	WO	01/52600	July 19, 2001			
	AN.	WO	01/41127	June 7, 2001			
	AO.	WO	97/44779	November 27, 1997			
	AP.	WO	96/28953	September 19, 1996			
	AQ.	WO	96/28950	September 19, 1996			

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Date  
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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